IRC-10 IMC-Z UPC-1

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WASHINGTON STATE BUILDING CODE COUNCIL APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT TO THE WASHINGTON STATE BUILDING CODE

THE PROPERTY OF THE PROPERTY OF		THE STATE OF	LITATO SPIANTA
TO THE WASHINGTON STATE I	BUILDING	CODE	
1. State Building Code to be Amend	ed.		
[] International Building Code [] Ver	tilation and l	Indoor Air Qua	lity Code
[X] International Residential Code [X	Internationa	ıl Mechanical (Code
[] ICC ANSI A117.1 Accessibility Co	de [X] Interi	national Fuel G	as Code
[] International Fire Code [] NFPA 5			
[X] Uniform Plumbing Code [] NFPA			as Code
[] State Energy Code	•		
Section UPC508.14 Page 45 IR	C G2408.2	IFGC 305.3	IMC 304.3
2. Applicant:			
Fast Water Heater Company			
3. Signed:			
	Preside	ent 5/21/2009	
91/			

Proponent Title Date
4. Contact Person:

Jeff Jordan

Name Title

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7. Proposed Code Amendment (U	Jnderline all added words,	strike through deleted w	vords)
Additional pages may be attached.		_	ĺ

Code <u>UPC</u>	_Section _	<u>508.14</u>	Page	<u>45</u>
Amend section to read as follo	777'C.			

(1) Gas utilization equipment in residential garages and in adjacent spaces that open to the garage and are not part of the living space of a dwelling unit shall be installed so that all burners and burner-ignition devices are located not less than 18 inches (450 mm) above the floor unless listed as flammable vapor ignition resistant. [NFPA 54:9.1.10.1] Electric water heaters are not required to be elevated.

(2) Such equipment shall be located or protected so it is not subject to physical damage by a moving vehicle. [NFPA 54:9.1.10.2]

Code IRC Section G2408.2

<u>Gas</u> Equipment and appliances having an ignition source shall be elevated such that the source of ignition is not less than 18 inches (457 mm) above the floor in hazardous locations and public garages, private garages, repair garages, motor fuel-dispensing facilities and parking garages. For the purpose of this section, rooms or spaces that are not part of the living space of a dwelling unit and that communicate directly with a private garage through openings shall be considered to be part of the private garage.

Exception: Elevation of the ignition source is not required for <u>electric water heaters and</u> appliances that are listed as Flammable Vapor Ignition Resistant.

Code - IFGC Section 305.3

<u>Gas</u> Equipment and appliances having an ignition source shall be elevated such that the source of ignition is not less than 18 inches (457 mm) above the floor in hazardous locations and public garages, private garages, repair garages, motor fuel-dispensing facilities and parking garages. For the purpose of this section, rooms or spaces that are not part of the living space of a dwelling unit and that communicate directly with a private garage through openings shall be considered to be part of the private garage.

Exception: Elevation of the ignition source is not required for <u>electric water heaters and</u> appliances that are listed as Flammable Vapor Ignition Resistant.

Code - IMC Section 304.3

Heating and / or cooling equipment and water heaters covered by this code, located in a garage and which generate a glow, spark, or flame capable of igniting flammable vapors, shall be installed with the sources of ignition at least 18 inches (457 mm) above the floor level

Exception. Elevation of the ignition source is not required for electric water heaters and appliances that are listed as Flammable Vapor Ignition Resistant.

8. Background information on amendment.

NOTE: State-wide and emergency state-wide amendments to the state building code should be based on one of the following criteria:

- (1) The amendment is needed to address a critical life/safety need.
- (2) The amendment is needed to address a specific state policy or statute.
- (3) The amendment is needed for consistency with state or federal regulations.
- (4) The amendment is needed to address a unique character of the state.
- (5) The amendment corrects errors and omissions.

The proposal I am making is to correct a conflict between the current-adopted codes. RCW 19.27 provides the precedence of the codes in the event of a conflict. The UPC is last in order of precedence, which for the most part is not an issue as the corresponding chapters in the other codes were not adopted. However, the sections on elevating an appliance were adopted in the IRC, IMC, IFCG and the UPC.

The UPC states that gas equipment must be raised unless listed as FVIR Enforcement for inspectors who refer to this section:

- 1. FVIR gas not required to be elevated.
- 2. Non FVIR gas required to be elevated.
- 3. Electric not required to be elevated.

Both the IRC and the IFGC state that equipment having an ignition source be raised. The definition of "ignition source" is "A flame, spark or hot surface capable of igniting flammable vapors or fumes. Such sources include appliance burners, burner ignitions and electrical switching devices." By definition, both the IRC and the IFGC would require that an electric water heater be elevated so the electrical switching device "thermostat" be 18" above the floor.

Enforcement for inspectors who refer to the IRC and IFGC:

- 1. FVIR gas not required to be elevated.
- 2. Non FVIR gas required to be elevated.
- 3. Electric required to be elevated.

The IMC as it is written would require both electric and FVIR listed appliances to be elevated as it uses the general term "water heater" and does not provide an exeption for FVIR listed appliances that are included in all the other codes.

The problem is that there is no consistency in the interpretation or enforcement of this code.

Enforcement for inspectors who refer to the IMC:

- 1. FVIR gas -required to be elevated.
- 2. Non FVIR gas required to be elevated.
- 3. Electric -required to be elevated.

Economic Impact Worksheet

(Required for statewide amendment requests.	Attach supporting documentation.)
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Code	References: $\frac{(PC, AC)}{(PC, AC)}$	1660,10	7 <u>C</u> Title:	<u> </u>	Phone	n of	ign, T) son	50016	£
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